

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 C10G65/04

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 C10G B01J

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 054 508 A (MILSTEIN DONALD ET AL) 18 October 1977 (1977-10-18) cited in the application the whole document	1-10
X	US 5 744 025 A (BOON ANDRIES QIRIN MARIA ET AL) 28 April 1998 (1998-04-28) cited in the application column 1, line 52 -column 2, line 45 example	1-10
X	PATENT ABSTRACTS OF JAPAN vol. 2000, no. 16, 8 May 2001 (2001-05-08) & JP 2001 003066 A (IDEMITSU KOSAN CO LTD), 9 January 2001 (2001-01-09) cited in the application abstract	1-10
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Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *Z* document member of the same patent family

Date of the actual completion of the international search

5 November 2003

Date of mailing of the international search report

12/11/2003

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/EP 83/06033

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 431 525 A (HENSLEY JR ALBERT L ET AL) 14 February 1984 (1984-02-14) cited in the application the whole document ---	1-10
X	US 4 431 526 A (MCARTHUR DENNIS P ET AL) 14 February 1984 (1984-02-14) the whole document -----	1-10

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/06033

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 4054508	A	18-10-1977	US 4016067 A	05-04-1977
US 5744025	A	28-04-1998	CA 2230605 A1	28-08-1998
			CN 1197105 A ,B	28-10-1998
			EP 0861881 A1	02-09-1998
			JP 10251666 A	22-09-1998
			TW 426727 B	21-03-2001
			ZA 9801604 A	19-02-1999
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US 4431525	A	14-02-1984	NONE	
US 4431526	A	14-02-1984	NONE	